Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claim 1 (currently amended) A reproduction apparatus for reproducing digital information recorded on an optical disc, comprising:

an optical pickup for reading said digital information recorded on said optical disc to have said digital information converted into electric signals, said digital information containing errors appearing when said digital information is read by said optical pickup;

signal amplifying means for amplifying said electric signals converted from said digital information read by said optical pickup;

signal processing means for processing said electric signals in one or more times of retry routines to correct said errors outputted as said electric signals from said signal amplifying means;

a buffer memory for storing said electric signals outputted from said signal processing means;

signal decoding means for decoding said electric signals stored in said buffer memory and outputted from said buffer memory;

pickup driving means for driving said optical pickup to move on said optical disc, said errors being associated with respective addresses to be targeted by said optical pickup when said optical pickup is moved by said pickup driving means;

2

information residue detecting means for detecting an amount of residue digital information remaining in said buffer memory; and

retry controlling means for controlling said one or more times of retry routines based on said amount of residue digital information detected by said information residue detecting means when said digital information fails to be read out of said optical disc, a first retry upper limit being used for a residue greater than a desired value, a second retry upper limit being used for a residue less than the desired value, wherein said first retry limit is greater than said second retry limit.

Claims 2-10 (cancelled)

Claim 11 (original) A reproduction apparatus as set forth in claim 1, in which said electric signal has a newest address representative of a first section in said buffer memory and an oldest address representative of a second section in said buffer memory, said first section assuming a position spaced apart from said second section; and in which said buffer memory comprises a write pointer serving to indicate said newest address of said electric signal stored in said buffer memory, and a read pointer functioning to indicate said oldest address of said electric signal stored in said buffer memory.

Claim 12 (original) A reproduction apparatus as set forth in claim 1, in which said retry controlling means has a retry counter indicative of said retry times and an upper limit times by which said retry routine is repeated.

3

Claims 13-14 (cancelled)

Claim 15 (currently amended) A reproduction method for reproducing digital information recorded on an optical disc, comprising the steps of:

a preparing step of preparing:

an optical pickup for reading said digital information recorded on said optical disc to have said digital information converted into electric signals, said digital information containing errors appearing when said digital information is read by said optical pickup;

signal amplifying means for amplifying said electric signals converted from said digital information read by said optical pickup;

signal processing means for processing said electric signals in one or more times of retry routines to correct said errors outputted as said electric signals from said signal amplifying means;

a buffer memory for storing said electric signals outputted from said signal processing means;

signal decoding means for decoding said electric signals stored in said buffer memory and outputted from said buffer memory;

pickup driving means for driving said optical pickup to move on said optical disc, said errors being associated with respective addresses to be targeted by said optical pickup when said optical pickup is moved by said pickup driving means;

information residue detecting means for detecting
an amount of residue digital information remaining in
said buffer memory;

retry controlling means for controlling said one
or more times of retry routines based on said amount
of residue digital information detected by said
information residue means when said digital
information fails to be read out of said optical disc;
and

a retry controlling step of having said retry
controlling means control said one or more times of retry
routines based on said amount of residue digital
information detected by said information residue detecting
means when said digital information fails to be read out of
said optical disc, a first retry upper limit being used for
a residue greater than a desired value, a second retry
upper limit being used for a residue less than the desired
value, wherein said first retry limit is greater than said
second retry limit.

Claims 16-24 (cancelled)